

## ABSTRACT OF THE DISCLOSURE

The micro pump 100 comprises a first flow pass 115 for changing the flow pass resistance in accordance with the differential pressure, a second flow pass 117 wherein the percentage change in flow pass resistance relative to the differential pressure is less than that of the first flow pass 115, pressure chamber 109 connected to the first flow pass 115 and the second flow pass 117, and a piezoelectric element 107 for changing the pressure within the pressure chamber 109 so as to transport minute amounts of fluid with high precision using a simple construction. The ratio of the flow pass resistance of the first flow pass 115 and the flow pass resistance of the second flow pass 117 differs by changing the pressure within the pressure chamber 109 via the piezoelectric element 107, such that fluid can be transported in a standard direction and an opposite direction.